

Serial No. 09/599,371
Attorney Docket No. 101992-200

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Complete Listing of Claims:

In the Claims:

1. (Currently Amended) An antimicrobial composition concentrate comprising:
pyrithione or a pyrithione complex; and
a zinc or copper or silver source selected from the group consisting of zinc or copper or silver salts, zinc or copper or silver oxides, zinc or copper or silver hydroxides, zinc or copper or silver metals, and combinations thereof;
wherein the weight ratio of said zinc or copper or silver source to said pyrithione or said pyrithione complex is in the range from ~~1:300 to 50:1~~ about 1:100 to about 1:10,
and wherein said antimicrobial composition has an enhanced biocidal effect against microorganisms selected from the group consisting of free-living microorganisms, parasitic microorganisms, adherent microorganisms, biofilms, and combinations thereof, upon dilution of the concentrate in a working fluid of at a dilution rate of between about 1:10 and about 1:100.
- 2-32. (Canceled)
33. (Currently Amended) An antimicrobial composition ~~concentrate useful upon dilution~~ for treating microorganisms selected from the group consisting of free-living microorganisms, parasitic microorganisms, adherent microorganisms, biofilms, and combinations thereof, comprising:
a salt of pyrithione; and
a water soluble zinc metal salt;
wherein the weight ratio of said water-soluble zinc metal salt to said salt of pyrithione is in the range from about 1:100 to about 1:1, and wherein said ~~antimicrobial composition has an enhanced biocidal effect against microorganisms selected from the group consisting of free-living microorganisms, parasitic microorganisms, adherent~~

Serial No. 09/599,371
Attorney Docket No. 101992-200

~~microorganisms, biofilms, and combinations thereof.~~ composition additionally comprises an lkanolamine.

34. (Currently Amended) The antimicrobial composition ~~concentrate~~ of claim 33, wherein said salt of

pyrithione is sodium pyrithione and said zinc metal salt is selected from the group consisting of zinc chloride, ~~zinc oxide~~, zinc sulfate, and combinations thereof.

43. (Currently Amended) An antimicrobial composition comprising:
pyrithione or a pyrithione complex; and
zinc from a zinc source selected from the group consisting of zinc salts, zinc oxides, zinc hydroxides, and combinations thereof;
wherein the weight ratio of said zinc source to said pyrithione or said pyrithione complex is in the range from 50:1 to 1:50, and wherein said antimicrobial composition has an enhanced biocidal effect against microorganisms selected from the group consisting of bacteria, fungi, and combinations thereof, upon dilution of the concentrate in a working fluid at a dilution rate of between about 1:10 and about 1:100, said composition additionally comprising an alkanolamine.

44. (Cancelled)

45. (Currently Amended) An antimicrobial composition, comprising:
pyrithione or a pyrithione complex; and
a zinc source selected from the group consisting of zinc salts, zinc oxides, zinc hydroxides, and combinations thereof;
wherein the weight ratio of said zinc source to said pyrithione or said pyrithione complex is present in a ratio of from 1:100 to 1:1, and wherein said composition additionally comprises alkanolamine.

46-49. (Cancelled)

50. (Currently amended) An antimicrobial composition concentrate useful upon dilution for treating microorganisms selected from the group consisting of free-living microorganisms, parasitic microorganisms, adherent microorganisms, biofilms, and combinations thereof, comprising:
a salt of pyrithione; and
a water soluble zinc metal salt;

Serial No. 09/599,371
Attorney Docket No. 101992-200

wherein the weight ratio of said water-soluble zinc metal salt to said salt of pyrrithione is in the range from 50:1 to 1:50 and wherein said antimicrobial composition has an enhanced biocidal effect against microorganisms selected from the group consisting of free-living microorganisms, parasitic microorganisms, adherent microorganisms, biofilms, and combinations thereof, upon dilution in a working fluid at a dilution ratio of the concentrate to the working fluid of between about 1:10 and about 1:100,

said antimicrobial composition additionally comprises ~~water or an organic solvent,~~
~~wherein said organic solvent is an alkanolamine.~~

51. (Cancelled)

52. (Currently Amended) An antimicrobial composition concentrate having upon dilution an enhanced biocidal effect against microorganisms selected from the group consisting of bacteria, fungi, and combinations thereof comprising:

pyrrithione or a pyrrithione complex; and

zinc from a zinc source selected from the group consisting of zinc salts, zinc oxides, zinc hydroxides, and combinations thereof;

wherein the weight ratio of said zinc source to said pyrrithione or said pyrrithione complex is in the range from 50:1 to 1:50, and ~~wherein said antimicrobial composition has of the concentrate in a working fluid at a dilution rate of between about 1:10 and about 1:100;~~

said antimicrobial composition additionally comprises ~~water or~~ an organic solvent, wherein said organic solvent is an alkanolamine.

53-55 (Cancelled)

56. (Currently amended) An antimicrobial composition, comprising:

pyrrithione or a pyrrithione complex; and

a zinc source selected from the group consisting of zinc salts, zinc oxides, zinc hydroxides, and combinations thereof,

wherein the weight ratio of said zinc source to said pyrrithione or said pyrrithione complex is present in a ratio from 1:100 to 1:10, said antimicrobial compositions being free of thiazolinone,

Serial No. 09/599,371
Attorney Docket No. 101992-200

said antimicrobial composition additionally comprises ~~water or~~ an organic solvent,
wherein said organic solvent is an alkanolamine.

57. (Previously Presented) The antimicrobial composition of claim 1 wherein said zinc or copper or silver salts is selected from the group consisting of zinc or copper or silver sulfates, zinc or copper or silver chlorides, and combinations thereof.

58. (Cancelled)

59. (New) An antimicrobial composition concentrate comprising:

pyrithione or a pyrithione complex; and

a zinc or copper or silver source selected from the group consisting of zinc or copper or silver salts, zinc or copper or silver oxides, zinc or copper or silver hydroxides, zinc or copper or silver metals, and combinations thereof;

wherein the weight ratio of said zinc or copper or silver source to said pyrithione or said pyrithione complex is in the range from about 1:100 to about 1:10, and wherein said antimicrobial composition has an enhanced biocidal effect against microorganisms selected from the group consisting of free-living microorganisms, parasitic microorganisms, adherent microorganisms, biofilms, and combinations thereof, upon dilution of the concentrate in a working fluid of at a dilution rate of between about 1:10 and about 1:100, said composition additionally comprising alkanolamine.